

Grade	C	Si	Mn	P	S	N	Al	Cu	Cr	N	Ti	V	Nb	Nb
St15 (EN 10025-4)	0.024	0.028	0.165	0.015	0.005	0.007	0.005	0.004	0.022	0.001	0.001	0	0.012	
St14 (EN 10025)	0.027	0.029	0.204	0.017	0.005	0.006	0.005	0.004	0.023	0.001	0.002	0.001	0.012	
ZStE220 (1534-2)	0.027	0.029	0.169	0.019	0.005	0.005	0.005	0.004	0.022	0.001	0.001	0	0.014	
ZStE220 (470636)	0.026	0.011	0.151	0.016	0.005	0.005	0.004	0.003	0.021	0.001	0.001	0	0.014	
ZStE340 (53042)	0.025	0.016	0.170	0.016	0.005	0.005	0.005	0.004	0.022	0.017	0.004	0.001	0.012	

Table 1: Chemical composition

Steel grade	Yield strength -NPa	Tensile strength -NPa	Elongation to fracture	BH ₂ -NPa
St15 (EN 10 130)	up to 130	270 to 330	at least 40	-
St15 (5min 500°C)	150	200	36	at least 38
St15 (2min 700°C)	190	230	30	at least 58
ZStE220 (S2A3 WE94)	from 220	300 to 380	at least 36	-
ZStE220 (5min 500°C)	220	340	34	at least 41
ZStE220 (2min 700°C)	250	380	28	at least 50
ZStE340 (SEW925)	340 to 440	410 to 530	at least 20	-
ZStE340 (5min 600°C)	360	470	22	at least 18
ZStE340 (2min 700°C)	390	480	20	at least 35
ZStE220BH (SEW924)	220 to 260	320 to 410	at least 20	from 40

Table 2

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